

## **POOR LEGIBILITY**

ONE OR MORE PAGES IN THIS DOCUMENT ARE DIFFICULT TO READ  
DUE TO THE QUALITY OF THE ORIGINAL



CH2M HILL  
155 Grand Avenue  
Suite 1000  
Oakland, CA 94612  
P.O.Box 12681  
Oakland, CA  
94604-2681  
Tel 510.251.2426  
Fax 510.893.8205

November 1, 2006  
264204.PC.70/MIPC.C224E

Mr. Henry Chui  
California Environmental Protection Agency,  
Department of Toxic Substances Control  
700 Heinz Avenue, Suite 200  
Berkeley, California 94710-2721

Subject: Cleanup Plan for PCB Site Building 386 AL#01 in Investigation Area C2, Eastern  
Early Transfer Parcel, Lennar Mare Island, Vallejo, California

Dear Mr. Chui:

CH2M HILL prepared this letter in compliance with the requirements in the Consent Agreement (Lennar Mare Island, LLC, [LMI] et al. 2001) signed April 16, 2001, by LMI, the City of Vallejo, and the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC), and according to the *Final Interim Removal Action Work Plan for Indoor Polychlorinated Biphenyl Sites in the Eastern Early Transfer Parcel* (CH2M HILL 2006). This letter presents the cleanup plan for Polychlorinated Biphenyl (PCB) Site Building 386 AL#01 in Investigation Area (IA) C2. Figure 1 shows the location of Building 386 in IA C2.

## Site Identification

Using visual site surveys and reviews of historical records, building closure reports, and databases of electrical equipment, the United States Department of the Navy (Navy) identified sites where PCB-containing equipment was located, PCB spills were documented, or contamination was suspected because of building history or visible stains (Tetra Tech Environmental Management, Inc., [TtEMI] 1998). Navy personnel from Supervisor of Shipbuilding, Conversion and Repair, Portsmouth, Virginia, Environmental Detachment (SSPORTS) conducted interim PCB assessments and performed cleanup actions (e.g., washing, scabbling, and excavation) in accordance with technical work documents (TWDs), where necessary. Following the SSPORTS interim PCB assessments and necessary cleanup actions, TtEMI personnel collected samples either to confirm SSPORTS findings that no cleanup was necessary or to determine the effectiveness of the cleanup actions.

Building 386 is located in IA C2, east of Azuar Drive (formerly Cedar Avenue), south of Bagley (formerly 14<sup>th</sup>) Street, and west of Railroad Avenue (Figure 1). Building 386 was constructed in the early to mid-1920s as part of a single superstructure (with Buildings 388, 390, and 382). Building 386 was used as a metalworking facility and much of the former metalworking equipment remains in place. Although adjacent Buildings 388, 390, and 382 have been leased to XKT,

Building 386 is not currently leased and is in an area designated for industrial use, according to the *Preliminary Land Use Plan* (SWA Group 2000).

PCB Site Building 386 AL#01 is associated with Building 386 and is listed in the Consent Agreement (LMI et al. 2001). Site descriptions and sample location figures for the PCB Site Building 386 are provided in the *Final Basewide Polychlorinated Biphenyl Confirmation Sampling Summary Report* (TtEMI 1998) in the section for Parcel 05-A. Only PCB Site Building 386 AL#01 is addressed in this letter.

The following sections provide details on the site history, a summary of previous sampling and cleanup actions, and the proposed cleanup plan for PCB Site Building 386 AL#01.

### **Summary of Previous Sampling and Cleanup Actions**

PCB Site Building 386 AL#01, formerly used as a metalworking facility, occupies the entire first floor of Building 386 (Figure 1). As part of an interim assessment in August 1996, SSPTS collected 34 wipe samples (6225-0028 through 6225-0042, 6225-0055 through 6225-0057, 6218-0244 through 6218-0252, and 6218-0262 through 6218-0269) and 55 solid samples (6225-0010 through 6225-0027, 6225-0046, 6225-0047, 6225-0064 through 6225-0073, 6225-0244 through 6225-0259, and 6218-0253 through 6218-0261) from stain-specific locations on the floor of the building (SSPTS 1996a) (Table 1). PCBs were detected above laboratory reporting limits at 5 of the 34 wipe sample locations, with results ranging from 6.6 (6225-0056) to 507 micrograms per 100 square centimeters ( $\mu\text{g}/100\text{ cm}^2$ ) (6218-0266), and at 17 of the 55 solid sample locations, with results ranging from 1.4 (6225-0066) to 11.2 milligrams per kilogram ( $\text{mg}/\text{kg}$ ) (6225-0255).

On November 5, 1996, SSPTS issued TWD 96-1370 to remediate four floor areas where PCBs were detected above  $10\text{ }\mu\text{g}/100\text{ cm}^2$  (SSPTS 1996b). This remediation consisted of washing three steel-plate floor areas and one concrete floor area. A 4- by 4-foot concrete floor area was washed around sample location 6218-0245 ( $15\text{ }\mu\text{g}/100\text{ cm}^2$ ) in the northwest corner of the building (Figure 2). Three adjacent steel-plate floor areas in the north-central portion of the building were washed around sample locations 6218-0264 ( $63\text{ }\mu\text{g}/100\text{ cm}^2$ ), 6218-0265 ( $20\text{ }\mu\text{g}/100\text{ cm}^2$ ), and 6218-0266 ( $507\text{ }\mu\text{g}/100\text{ cm}^2$ ) (Figure 2). Following this cleanup action, SSPTS personnel collected five wipe samples (6296-0091 through 6296-0095) on November 22, 1996, to confirm successful abatement. PCBs were not detected above the laboratory reporting limit ( $5\text{ }\mu\text{g}/100\text{ cm}^2$ ) in these samples (SSPTS 1996b).

On July 10, 1997, TtEMI personnel collected two concrete samples (PC1732 and PC1733) and four asphalt samples (PC1731, PC1736, PC1737, and PC1740) at PCB Site Building 386 AL#01 from oil-stained areas. The only detected PCB concentration that exceeded the industrial preliminary remediation goal (PRG) of  $0.74\text{ mg}/\text{kg}$  was in concrete sample PC1734 ( $2.6\text{ mg}/\text{kg}$ ) (Table 1).

In September 1997, as part of an Installation Restoration Program site investigation, three geoprobe borings were advanced and five soil samples (B386B001 through B386B003) were

collected and analyzed for PCBs. PCBs were not detected in these soil samples above the respective laboratory reporting limits (Table 1).

## Cleanup Plan

Previous sample locations and PCB concentrations for PCB Site Building 386 AL#01 are presented in Figure 2. Because residual concentrations exceed the industrial PRG of 0.74 mg/kg (United States Environmental Protection Agency [USEPA] 2004), additional cleanup actions are necessary. The proposed actions at PCB Site Building 386 AL#01 will include the removal of 18 distinct areas of floor where detected PCB concentrations have been above the industrial PRG (Figure 3).

The 18 proposed removal areas, approximately 5 by 5 feet each, surround the following PCB samples: 6218-0260, 6218-0261, 6225-0013, 6225-0255, 6225-0256, 6225-0247, 6225-0251, 6225-0017, 6225-0064, 6225-0065, 6225-0066, 6225-0067, 6225-0071, 6225-0019, 6225-0024, 6225-0070, 6218-0254, and PC1734 (Figure 3). Four discrete verification samples will be collected from each removal area based on a 3-foot (approximately 1-meter) grid. Approximately 6 inches of concrete and/or asphalt will be removed from each area.

Figure 4 illustrates the process for PCB site closure under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the Toxic Substances Control Act (TSCA). According to the *Final Polychlorinated Biphenyl Work Plan* (CH2M HILL 2003), and under CERCLA, NFA is appropriate at a PCB site if no potential source and no PCB contamination are present at the site. Even if a potential source or PCB contamination is present in machinery or building materials, NFA is appropriate under CERCLA if there has been no release of PCBs to soil or groundwater and there are no visible pathways for migration of PCBs to soil or groundwater (CH2M HILL 2003). If there has been a known release to soil or groundwater, NFA is also appropriate if the detected PCB concentrations in soil and groundwater do not exceed the applicable PRG, or if results of a site-specific risk evaluation demonstrate that potential risks associated with exposure to residual PCBs are within the risk-management range generally used to determine whether cleanup is necessary.

Cleanup actions will be performed in accordance with the *Final Interim Removal Action Work Plan for Indoor Polychlorinated Biphenyl Sites in the Eastern Early Transfer Parcel* (CH2M HILL 2006). Samples will be analyzed in accordance with the *Quality Assurance Project Plan* (CH2M HILL 2001) using USEPA Method SW8082. Health and safety will be maintained in accordance with the *Health and Safety Plan for PCB Site Sampling and Remediation* (Appendix A to the *Draft Polychlorinated Biphenyl Work Plan*; CH2M HILL 2002). Standard operating procedures (SOP) for the fieldwork and issues regarding site security, site access, permits and notifications, site restoration, and site demobilization were addressed in the *Final Interim Removal Action Work Plan for Polychlorinated Biphenyl Sites in the Eastern Early Transfer Parcel*.

Considering the PCB concentrations detected in samples collected from the site, PCB-containing wastes generated from cleanup activities will likely be disposed of off site in a Class II landfill.

Mr. Henry Chui  
November 1, 2006  
Page 4

However, final disposition of the waste will be determined using the results of waste characterization samples. PCB waste will be managed in accordance with CH2M HILL Health, Safety, and the Environment SOP 82 (HSE-82). This SOP was provided in the *Draft Polychlorinated Biphenyl Work Plan* (CH2M HILL 2002).

## Conclusions

Actions will be performed at PCB Site Building 386 AL#01 to remove remaining concentrations of PCBs that exceed site cleanup goals. Removal actions will continue until the cleanup goal has been achieved or until it is not practical to continue with the removal (e.g., without undermining a building wall). The cleanup, planned for December 2006, will be performed in accordance with the *Final Interim Removal Action Work Plan for Indoor Polychlorinated Biphenyl Sites in the Eastern Early Transfer Parcel* (CH2M HILL 2006). The necessity for indoor air sampling will be determined following an evaluation of the verification sample data. Indoor air sampling, if required, will be performed in accordance with the *Draft Indoor Air Sampling and Analysis Plan for Polychlorinated Biphenyl Sites at Lennar Mare Island* (CH2M HILL 2005).

Please submit your approval of this cleanup plan to me at the above address or via email at Michael.Sanchez@CH2M.com within 30 calendar days of receiving this letter. If you have questions or concerns regarding this cleanup plan for PCB Site Building 386 AL#01, please contact me at 530/229-3310 or Steve Farley at 707/562-1015 extension 103.

Sincerely,

CH2M HILL



Michael Sanchez  
Project Manager



Stephen M. Farley  
Quality Control Manager

RDD/062960001 (NLH3288.doc) ES102006010RDD

Enclosures: Table 1, Figures 1 through 4

## References

- CH2M HILL. 2001. *Quality Assurance Project Plan*. November.
- \_\_\_\_\_. 2002. *Draft Polychlorinated Biphenyl Work Plan*. August.
- \_\_\_\_\_. 2003. *Final Polychlorinated Biphenyl Work Plan*. March 7.
- \_\_\_\_\_. 2005. *Draft Indoor Air Sampling and Analysis Plan for Polychlorinated Biphenyl Sites at Lennar Mare Island*. November.
- \_\_\_\_\_. 2006. *Final Interim Removal Action Work Plan for Indoor Polychlorinated Biphenyl Sites in the Eastern Early Transfer Parcel*. August.
- Lennar Mare Island (LMI), the City of Vallejo, and the State of California, Environmental Protection Agency Department of Toxic Substances Control (DTSC). 2001. *Consent Agreement between Lennar Mare Island, the City of Vallejo, and the State of California, Environmental Protection Agency, Department of Toxic Substances Control*. April 16.
- Supervisor of Shipbuilding, Conversion, and Repair, Portsmouth, Virginia, Environmental Detachment (SSPORTS). 1996a. *Polychlorinated Biphenyl (PCB) Assessment for Parcel 05-A*. October 7.
- \_\_\_\_\_. 1996b. *PCB Decontamination Technical Work Document (TWD). PCB-Contaminated Spill Site, Building 386 Floor Decontamination*. TWD No. 96-1370. November 5.
- SWA Group. 2000. *Preliminary Land Use Plan*. May 23.
- Tetra Tech Environmental Management, Inc. (TtEMI). 1998. *Final Basewide Polychlorinated Biphenyl Confirmation Sampling Summary Report*. February 13.
- United States Environmental Protection Agency (USEPA). 2004. *Region 9 Preliminary Remediation Goals*. October 1.

Mr. Henry Chui  
November 1, 2006  
Page 6

Copy to (with enclosures):

---

Mr. Brian Thompson  
Regional Water Quality Control Board  
1515 Clay Street, Suite 1400  
Oakland, CA 94612

Mr. Gordon Hart  
Paul, Hastings, Janofsky, Walker, LLP  
55 Second Street, 24<sup>th</sup> Floor  
San Francisco, CA 94105-3411

Ms. Carolyn d'Almeida  
U.S. EPA Region 9 (SFD 8-1)  
75 Hawthorne Street, 9<sup>th</sup> Floor  
San Francisco, CA 94105

Mr. Gil Hollingsworth  
Mare Island Conversion Division  
City of Vallejo  
555 Santa Clara Street  
Vallejo, CA 94590-5934  
(Electronic copy only)

Mr. Neal Siler  
Lennar Mare Island, LLC  
690 Walnut Avenue, Suite 100  
Vallejo, CA 94592

Ms. Myrna Hayes  
816 Branciforte Street  
Vallejo, CA 94590

Mr. Bob Palmer  
Caretaker Site Office, SF Bay  
410 Palm Ave., Bldg. 1, Suite 161  
San Francisco, CA 94130  
(2 copies)

Mr. Saul Bloom  
Arc Ecology  
4634 - 3<sup>rd</sup> Street  
San Francisco, CA 94124  
(Electronic copy only)

Mr. Bill Kilgore  
California Environmental Protection Agency,  
Department of Toxic Substances Control  
8800 Cal Center Drive  
Sacramento, CA 95826  
(Electronic copy only)

Ms. Sheila Roebuck  
Lennar Mare Island, LLC  
690 Walnut Avenue, Suite 100  
Vallejo, CA 94592  
(IAs D1 and H2 only; otherwise without  
enclosures)

CH2M HILL copies:

Paula Bolio  
Melanie Swift  
Jen Tausch  
Starr Dehn (final link only)  
Jim Robbins (final CD only)

Mr. Henry Chui  
November 1, 2006  
Page 7

Copy to (without enclosures):

---

Ms. Carolyn Marn  
U.S. Fish and Wildlife Service  
2800 Cottage Way, Room W-2605  
Sacramento, CA 95825

Mr. Frank Gray  
California Dept. of Fish & Game  
OSPR Headquarters  
P.O. Box 944209  
Sacramento, CA 94244-2090

Ms. Laurie Sullivan  
National Oceanic and Atmospheric  
Administration  
75 Hawthorne Street, 9<sup>th</sup> Floor  
San Francisco, CA 94105  
(Electronic copy only via email)

Ms. Patricia Port  
U.S. Department of Interior  
1111 Jackson Street, Suite 520  
Oakland, CA 94607

Mr. Jeff Gove  
Bay Area Air Quality Management District  
939 Ellis Street  
San Francisco, CA 94109

Mr. Mike Coffey  
6 Oricle Court  
American Canyon, CA 94503

Mr. Kenneth Browne  
109 El Camino Real  
Vallejo, CA 94590

Mr. James O'Loughlin  
1449 Sheridan Drive  
Napa, CA 94558

Mr. Adam A. Chavez  
1031 Florida Street  
Vallejo, CA 94590-5513

Mr. Steven Goldbeck  
San Francisco Bay Commission  
50 California Street, Suite 2600  
San Francisco, CA 94102

Mr. Gerald Karr  
149 Garden Court  
Vallejo, CA 94591

Dr. Tom Charon, M.D.  
Solano County Department of Public Health  
275 Beck Avenue  
Fairfield, CA 94533

Ms. Paula Tygielski  
456 East L Street  
Benicia, CA 94510

Mr. Donald Parker  
Vallejo Fire Department  
970 Nimitz Street  
Vallejo, CA 94592

Mr. Terry Schmidtbauer  
Dept. of Resource Management  
County of Solano  
675 Texas Street, Suite 5500  
Fairfield, CA 94533

Mr. Justice Budu  
107 Fieldstone Way  
Vallejo, CA 94589



Mr. Henry Chui  
November 1, 2006  
Page 8

Copy to (without enclosures):

---

Mr. Brad S. Nicolet  
Solano County Department of Resource  
Management  
675 Texas Street, Suite 5500  
Fairfield, CA 94533  
(UST documents only)

**TABLE 1**  
Sample Results for PCB Site Building 386 AL#01  
PCB Sites, Lennar Mare Island, Vallejo, California

Sample Number	Sample Matrix	Sample Date	PCB Concentration <sup>a</sup>	Unit	Comments
6218-0253	Solid	08/14/96	<1.0	mg/kg	
6218-0254	Solid	08/14/96	1.8	mg/kg	Aroclor-1254
6218-0255	Solid	08/14/96	<1.0	mg/kg	
6218-0256	Solid	08/14/96	<1.0	mg/kg	
6218-0257	Solid	08/14/96	<1.0	mg/kg	
6218-0258	Solid	08/14/96	<1.0	mg/kg	
6218-0259	Solid	08/14/96	<1.0	mg/kg	
6218-0260	Solid	08/14/96	2.1	mg/kg	Aroclor-1248
6218-0261	Solid	08/14/96	6.6	mg/kg	Aroclor-1248
6225-0046	Solid	08/14/96	<5.0	mg/kg	
6225-0047	Solid	08/14/96	<1.0	mg/kg	
6225-0064	Solid	08/15/96	1.6	mg/kg	Aroclor-1254
6225-0065	Solid	08/15/96	3.4	mg/kg	Aroclor-1248
6225-0066	Solid	08/15/96	1.4	mg/kg	Aroclor-1248
6225-0067	Solid	08/15/96	2.6	mg/kg	Aroclor-1254
6225-0068	Solid	08/15/96	<1.0	mg/kg	
6225-0069	Solid	08/15/96	<1.0	mg/kg	
6225-0070	Solid	08/15/96	4.5	mg/kg	Aroclor-1248
6225-0071	Solid	08/15/96	3.2	mg/kg	Aroclor-1248
6225-0072	Solid	08/15/96	<1.0	mg/kg	
6225-0073	Solid	08/15/96	<1.0	mg/kg	
6225-0019	Solid	08/16/96	2.0	mg/kg	Aroclor-1254
6225-0020	Solid	08/16/96	<1.0	mg/kg	
6225-0021	Solid	08/16/96	<1.0	mg/kg	
6225-0022	Solid	08/16/96	<1.0	mg/kg	
6225-0023	Solid	08/16/96	<1.0	mg/kg	
6225-0024	Solid	08/16/96	1.6	mg/kg	Aroclor-1248
6225-0025	Solid	08/16/96	<1.0	mg/kg	
6225-0026	Solid	08/16/96	<1.0	mg/kg	
6225-0027	Solid	08/16/96	<1.0	mg/kg	
6225-0010	Solid	08/19/96	<1.0	mg/kg	
6225-0011	Solid	08/19/96	<1.0	mg/kg	
6225-0012	Solid	08/19/96	<1.0	mg/kg	
6225-0013	Solid	08/19/96	5.0	mg/kg	Aroclor-1254
6225-0014	Solid	08/19/96	<5.0	mg/kg	

**TABLE 1**  
Sample Results for PCB Site Building 386 AL#01  
PCB Sites, Lennar Mare Island, Vallejo, California

Sample Number	Sample Matrix	Sample Date	PCB Concentration <sup>a</sup>	Unit	Comments
6225-0015	Solid	08/19/96	<5.0	mg/kg	
6225-0016	Solid	08/19/96	<5.0	mg/kg	
6225-0017	Solid	08/19/96	10.1	mg/kg	Aroclor-1254
6225-0018	Solid	08/19/96	<5.0	mg/kg	
6225-0244	Solid	08/19/96	<5.0	mg/kg	
6225-0245	Solid	08/19/96	<5.0	mg/kg	
6225-0246	Solid	08/19/96	<5.0	mg/kg	
6225-0247	Solid	08/19/96	6.9	mg/kg	Aroclor-1254
6225-0248	Solid	08/19/96	<5.0	mg/kg	
6225-0249	Solid	08/19/96	<5.0	mg/kg	
6225-0250	Solid	08/19/96	<1.0	mg/kg	
6225-0251	Solid	08/19/96	1.5	mg/kg	Aroclor-1254
6225-0252	Solid	08/19/96	<5.0	mg/kg	
6225-0253	Solid	08/19/96	<5.0	mg/kg	
6225-0254	Solid	08/19/96	<5.0	mg/kg	
6225-0255	Solid	08/19/96	11.2	mg/kg	Aroclor-1260
6225-0256	Solid	08/19/96	3.4	mg/kg	Aroclor-1260
6225-0257	Solid	08/19/96	<1.0	mg/kg	
6225-0258	Solid	08/19/96	<5.0	mg/kg	
6225-0259	Solid	08/19/96	<5.0	mg/kg	
6225-0055	Wipe	08/21/96	<5.0	µg/100 cm <sup>2</sup>	
6225-0056	Wipe	08/21/96	6.6	µg/100 cm <sup>2</sup>	Aroclor-1260
6225-0057	Wipe	08/21/96	<5.0	µg/100 cm <sup>2</sup>	
6218-0244	Wipe	08/23/96	<5.0	µg/100 cm <sup>2</sup>	
6218-0245	Wipe of Concrete Floor	08/23/96	15.0	µg/100 cm <sup>2</sup>	Aroclor-1260; removed per TWD 96-1370
6218-0246	Wipe	08/23/96	<5.0	µg/100 cm <sup>2</sup>	
6218-0247	Wipe	08/23/96	<5.0	µg/100 cm <sup>2</sup>	
6218-0248	Wipe	08/23/96	<5.0	µg/100 cm <sup>2</sup>	
6218-0249	Wipe	08/23/96	<5.0	µg/100 cm <sup>2</sup>	
6218-0250	Wipe	08/23/96	<5.0	µg/100 cm <sup>2</sup>	
6218-0251	Wipe	08/23/96	<5.0	µg/100 cm <sup>2</sup>	
6218-0252	Wipe	08/23/96	<5.0	µg/100 cm <sup>2</sup>	
6218-0262	Wipe	08/23/96	<5.0	µg/100 cm <sup>2</sup>	
6218-0263	Wipe	08/23/96	<5.0	µg/100 cm <sup>2</sup>	

**TABLE 1**  
Sample Results for PCB Site Building 386 AL#01  
PCB Sites, Lennar Mare Island, Vallejo, California

Sample Number	Sample Matrix	Sample Date	PCB Concentration <sup>a</sup>	Unit	Comments
6218-0264	Wipe of Steel Plate on Floor	08/23/96	63.0	µg/100 cm <sup>2</sup>	Aroclor-1242; removed per TWD 96-1370
6218-0265	Wipe of Steel Plate on Floor	08/23/96	20.0	µg/100 cm <sup>2</sup>	Aroclor-1254; removed per TWD 96-1370
6218-0266	Wipe of Steel Plate on Floor	08/23/96	507.0	µg/100 cm <sup>2</sup>	Aroclor-1254; removed per TWD 96-1370
6218-0267	Wipe	08/23/96	<5.0	µg/100 cm <sup>2</sup>	
6218-0268	Wipe	08/23/96	<5.0	µg/100 cm <sup>2</sup>	
6218-0269	Wipe	08/23/96	<5.0	µg/100 cm <sup>2</sup>	
6225-0028	Wipe	08/27/96	<5.0	µg/100 cm <sup>2</sup>	
6225-0029	Wipe	08/27/96	<5.0	µg/100 cm <sup>2</sup>	
6225-0030	Wipe	08/27/96	<5.0	µg/100 cm <sup>2</sup>	
6225-0031	Wipe	08/27/96	<5.0	µg/100 cm <sup>2</sup>	
6225-0032	Wipe	08/27/96	<5.0	µg/100 cm <sup>2</sup>	
6225-0033	Wipe	08/27/96	<5.0	µg/100 cm <sup>2</sup>	
6225-0034	Wipe	08/27/96	<5.0	µg/100 cm <sup>2</sup>	
6225-0035	Wipe	08/27/96	<5.0	µg/100 cm <sup>2</sup>	
6225-0037	Wipe	08/27/96	<5.0	µg/100 cm <sup>2</sup>	
6225-0038	Wipe	08/27/96	<5.0	µg/100 cm <sup>2</sup>	
6225-0039	Wipe	08/27/96	<5.0	µg/100 cm <sup>2</sup>	
6225-0040	Wipe	08/27/96	<5.0	µg/100 cm <sup>2</sup>	
6225-0041	Wipe	08/27/96	<5.0	µg/100 cm <sup>2</sup>	
6225-0042	Wipe	08/27/96	<5.0	µg/100 cm <sup>2</sup>	
6296-0091	Wipe	11/22/96	<5.0	µg/100 cm <sup>2</sup>	TWD verification sample
6296-0092	Wipe	11/22/96	<5.0	µg/100 cm <sup>2</sup>	TWD verification sample
6296-0093	Wipe	11/22/96	<5.0	µg/100 cm <sup>2</sup>	TWD verification sample
6296-0094	Wipe	11/22/96	<5.0	µg/100 cm <sup>2</sup>	TWD verification sample
6296-0095	Wipe	11/22/96	<5.0	µg/100 cm <sup>2</sup>	TWD verification sample
PC1731	Asphalt	07/10/97	0.194 J	mg/kg	0.16 J mg/kg Aroclor-1254; 0.034 J mg/kg Aroclor-1260
PC1732	Concrete	07/10/97	0.223 J	mg/kg	0.18 J mg/kg Aroclor-1254; 0.043 J mg/kg Aroclor-1260
PC1734	Concrete	07/10/97	2.6	mg/kg	Aroclor-1254
PC1736	Asphalt	07/10/97	<0.067	mg/kg	
PC1737	Asphalt	07/10/97	0.092 J	mg/kg	Aroclor-1254
PC1740	Asphalt	07/10/97	0.23	mg/kg	Aroclor-1260

**TABLE 1**

Sample Results for PCB Site Building 386 AL#01  
PCB Sites, Lennar Mare Island, Vallejo, California

Sample Number	Sample Matrix	Sample Date	PCB Concentration <sup>a</sup>	Unit	Comments
B386GB001	Soil	09/23/97	<0.034	mg/kg	3.5 to 4.0 feet bgs
B386GB002	Soil	09/23/97	<0.022	mg/kg	3.5 to 4.0 feet bgs
B386GB002	Soil	09/23/97	<0.0086	mg/kg	11 to 11.5 feet bgs
B386GB003	Soil	09/23/97	<0.0067	mg/kg	0 to 0.5 feet bgs
B386GB003	Soil	09/23/97	<0.01	mg/kg	4.0 to 4.5 feet bgs

<sup>a</sup>Total PCB concentration unless otherwise specified in comments column.

Notes:

µg/100 cm<sup>2</sup> = micrograms per 100 square centimeters

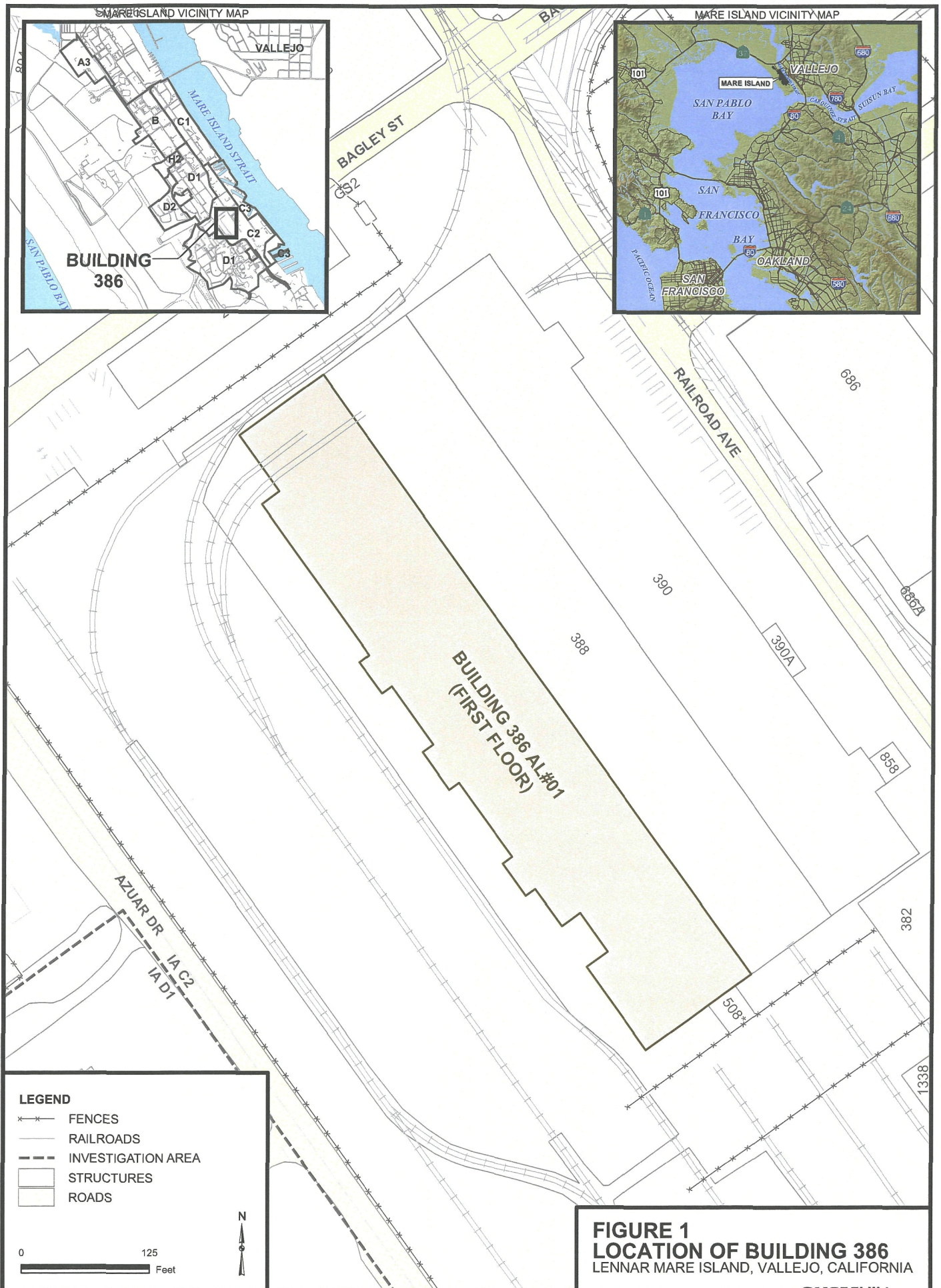
bgs = below ground surface

J = estimated concentration

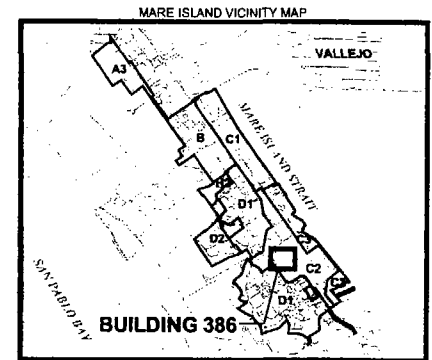
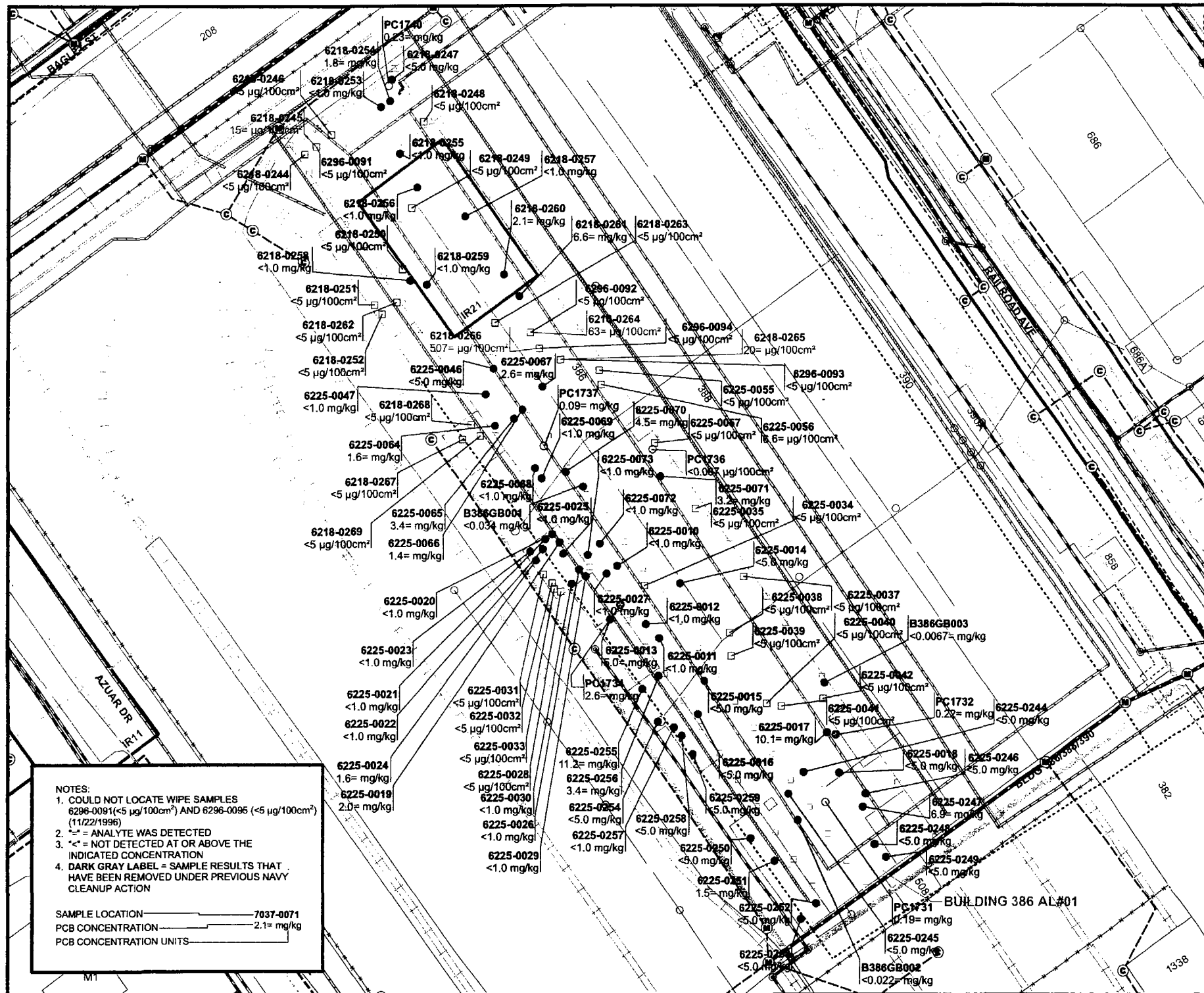
mg/kg = milligrams per kilogram

PCB = polychlorinated biphenyl

TWD = technical work document





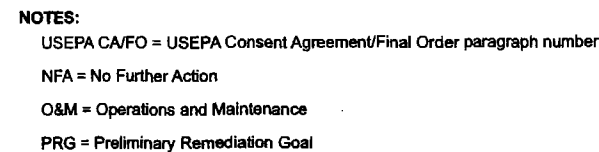
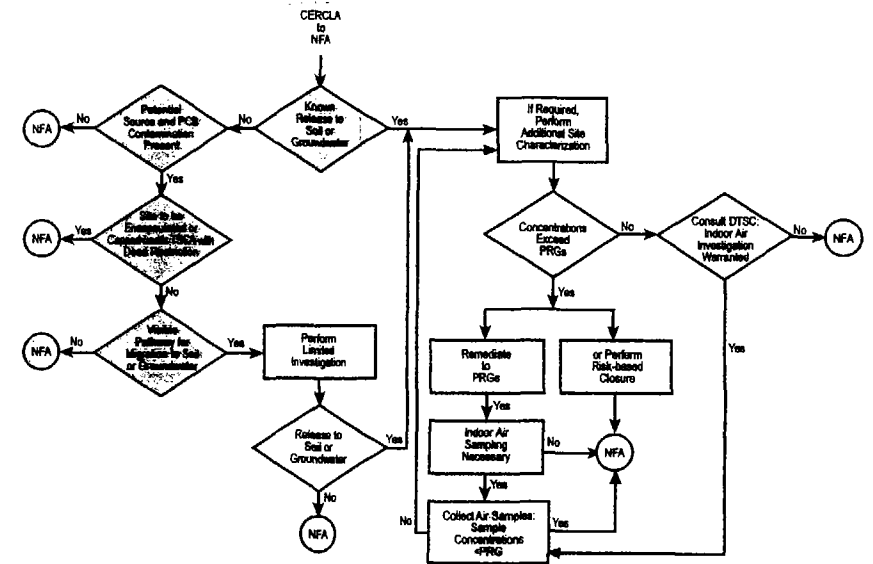


- LEGEND**
- PCB SAMPLE LOCATIONS
  - ASPHALT CHIP SAMPLE
  - ◐ CONCRETE CHIP SAMPLE
  - WIPE SAMPLE
  - ⌈ COLUMNS
  - ⊗ SEWER MANHOLE
  - ⊕ STORM SEWER CATCHBASINS
  - ⊙ STORM SEWER MANHOLES
  - FENCES
  - RAILROADS
  - FORMER RAILROADS
  - - - INVESTIGATION AREA
  - - - UNDERGROUND ELECTRICAL UTILITY
  - - - AIR PIPELINES
  - - - COMPRESSED AIR PIPELINES
  - - - EXISTING DREDGE PIPELINES
  - - - EXISTING FRESHWATER PIPELINES
  - - - ABANDONED OR DEAD FRESHWATER PIPELINES
  - - - GAS PIPELINES
  - - - INDUSTRIAL WASTEWATER PIPELINE (IR14)
  - - - OTHER WATER PIPELINES
  - - - SALTWATER PIPELINES
  - - - BACKBONE SEWER PIPELINES
  - - - SEWER SERVICE LINES
  - - - STEAM PIPELINES
  - - - STORMWATER BACKBONE
  - - - STORMWATER SERVICE LINES
  - GROUP I SITES
  - GROUP II, III SITES
  - ROADS
  - STRUCTURES

**FIGURE 2**  
**PCB SITE BUILDING 386 AL#01**  
**PREVIOUS SAMPLING LOCATIONS**  
**AND PCB CONCENTRATIONS**  
 LENNAR MARE ISLAND, VALLEJO, CALIFORNIA







**FIGURE 4**  
**PATH FOR PCB SITE CLOSURE**  
**BUILDING 386 AL#01**  
LENNAR MARE ISLAND, VALLEJO, CALIFORNIA